VERSION DESCRIPTION DOCUMENT FOR THE NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)

Release 6.4

NASA-NEMS-VDD-13

UNITeS Contract

August 6, 2004

National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

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NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)
RELEASE 6.4**

Submitted by

_____
    Neal Cantrell   Date
    Functional Area Lead

Reviewed by

UNITeS

_____		_____	
Billy Graham	Date	Jim Cofer	Date
Agencywide IRM, Property		Configuration Management	
and Procurement Systems			
_____		_____	
Steve Rowell	Date	Richard Bishop	Date
Agencywide IRM		DBA	

Prepared by

Unified NASA Information Technology Services, Contract NNM04AA02C

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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FOR THE
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Approved by

_____
Marisa Wofford   Date
Consolidation Center
Project Manager

_____
Nikita Zurkin   Date
Program Functional Manager

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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1. INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Equipment Management System (NEMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NEMS, Release 6.4 and has an effective release date of August 6, 2004.

1.2 PURPOSE OF THE RELEASE

This release implements modifications for the following Change Control Requests (CCRs):

CCR	Title
394	Transaction I13 defaulting zeros in some fields
395	Transaction I06 – fields defaulting to zeros and blanks
396	Transaction 60 – Local Data defaulting to zero
398	Date format on display dates for report 771
399	Capitalization Amount field in HQ extract reports off by 100
401	I15 on Inventory Overage with History in more than 1 center
403	Add reports 832, 833, and 834 to PCM
404	Distribution information for the 833 and 834 reports
405	Add additional information to automatic email message
407	Change order of Loan In/Out & Lease In/Out
408	PCM On Request Reports limited to 13 entries
411	Erroneous processing of T15s

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

CCR	Title

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the content, status, and structure of Release 6.4, including the following:

- Changes implemented since Release 6.3;

- Validation procedures to ensure the reliability of release changes;

- References to other documentation affected by this release;

- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NEMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NEMS)
      Telephone: (256) 544-6673
      Email: neal.cantrell@msfc.nasa.gov
      FAX: (256) 544-1836

2. <u>FUNCTIONAL INFORMATION</u>

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT changes related to this release.

2.2 FUNCTIONAL INTERFACES

This section is not applicable for this release.

2.3 CRITICAL ISSUES

This section is not applicable for this release.

2.4 AFFECTED DOCUMENTS

The following documents were changed for this release:

NEMS Web Front End User Guide
NEMS User's Guide

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This section is not applicable with this release.

3.2 DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Section 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NEMS Software Release 6.4 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. **KNOWN AND OPEN PROBLEMS**

There are no known or open problems related to this release

.

APPENDIX A - <u>ABBREVIATIONS AND ACRONYMS</u>

CC   Consolidation Center

CCR   Change Control Request

DBA   Database Administrator

DR   Discrepancy Report

FAX   Electronic Facsimile Transmission

IRM   Information Resources Management

JCL   Job Control Language

MSFC   Marshall Space Flight Center

NACC   NASA Automated Data Processing (ADP) Consolidation Center

NASA   National Aeronautics and Space Administration

NEMS   NASA Equipment Management System

NPDMS   NASA Property Disposal Management System

SESAAS   Sustaining Engineering Support for Agencywide Application Services

UNITeS   Unified NASA Information Technology Services

VDD   Version Description Document

APPENDIX B - <u>GLOSSARY</u>

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

APPENDIX C - <u>FUNCTIONAL CHANGE VALIDATION PROCEDURES</u>

Index of validation procedures for changes in this release:

Details for the validation procedures follow:

1.0 CCR 394 – Transaction I13 defaulting zeros in some fields

Zeros are defaulting in the Date Available, Date Warranty Exp - Materials, Date Warranty Exp - Labor, Date Last Calibrated, and Date Calibration Due fields. Also, the COST field is not being populated.

Description of Change

Code was changed to make sure the Date Available, Date Warranty Exp – Materials, Date Warranty Exp – Labor, Date Last Calibrated, and Date Calibration Due fields do not default to zeros and to populate the COST field with the COST from the NEMS-HISTORY field.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Perform Inventory Transaction I13 on an ECN that is an overage in inventory and has been placed on the NEMS-TRANSFER file by NPDMS.
  Expected Results: The Date Available, Date Warranty Exp – Materials, Date Warranty Exp – Labor, Date Last Calibrated, and Date Calibration Due fields will be defaulted to blank. The COST field will be defaulted to the COST that is on the NEMS-HISTORY file.

MODULE ID	MODULE NAME	TYPE
NEMSINV		
TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program

2.0 CCR 395 – Transaction I06 – fields defaulting to zeros and blanks

Zeros are defaulting in the DATE AVAILABLE, DATE LAST CALIBRATED, and DATE WARRANTY EXP - LABOR fields. Also, the DATE INST ACQ, SERIAL NO, and COST are blank.

Description of Change

Added code to make sure the Date Available, Date Last Calibrated, and Date Warranty Exp – Labor fields do not default to zeros and to populate the Serial No, Date Inst Acq, and Cost fields with their NEMS-HISTORY file values.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Perform Inventory Transaction I06 on an ECN that is an overage in inventory. Expected Results: The Date Available, Date Last Calibrated, and Date Warranty Exp – Labor fields will be defaulted to blank. The Serial No, Date Inst, Acq, and Cost fields will be defaulted to their values on the NEMS-HISTORY file.

_____

MODULE ID	MODULE NAME	TYPE
NEMSINV		
TRNI06P1	Add Transaction I06 (Receipt by Transfer-From Contractor	Program

3.0 CCR 396 – Transaction 60 – Local Data defaulting to zero
The local data field on transaction 60 is defaulting to zero.

Description of Change
Code was changed to Local Data field to default to blank.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
- Perform NEMS Transaction 60 on an ECN.
  Expected Results: Local Data indicator will be set to blank.

_____

MODULE ID	MODULE NAME	TYPE
TRN060P1	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program

4.0 <u>CCR 398 – Date format on display dates for report 771</u>
NEMS Inventory Report 771 (Records not Inventoried Report) is displaying the
Custodian Account Opened, Processed, and Closed Dates in an incorrect format.

Description of Change
Code was changed to display the Custodian Account Opened date, Custodian
Account Processed date, and Custodian Account Closed date in the YY/MM/DD
format after a change in Custodian Accounts.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
*   Schedule and run the 771 report for 2 or more custodians.
    Expected Results: The report will display the Custodian Account Opened
    date, Custodian Account Processed date, and Custodian Account Closed
    date in YY/MM/DD format.

_____

MODULE ID	MODULE NAME	TYPE
RPT771P1	Custodian Account Records not inventoried Report	Program

5.0 CCR 399 – Capitalization Amount field in HQ extract reports off by 100

HQ extract reports D - J displays the Capitalization Amount field as 9.2. When the flat files are converted to the Excel spreadsheet the field is converted as an 11 byte field converting the pennies to dollars.

Description of Change
Code was added to only print out the dollar amount for the Capitalization Amount.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
- The following HQ extract reports: NEUCEQPD, NEUCEQPE, NEUCEQPF, NEUCEQPG, NEUCEQPH, NEUCEQPI, and NEUCEQPJ.
  Expected Results: Capitalization Amount for these reports should contain only the dollar amount.

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MODULE ID	MODULE NAME	TYPE
NEUCEQPD	NEMS Capital Equipment – For TX 67	Program
NEUCEQPE	NEMS Capital Equipment – For TX 06	Program
NEUCEQPF	NEMS Capital Equipment – For TX 86	Program
NEUCEQPG	NEMS Capital Equipment – For TX 80, 81, 90	Program
NEUCEQPH	NEMS Capital Equipment – For TX 66	Program
NEUCEQPI	NEMS Capital Equipment – For TX 05	Program
NEUCEQPJ	NEMS Capital Equipment – For TX 13	Program

6.0 <u>CCR 401 – I15 on Inventory Overage with History in more than 1 center</u>
An I15 for a Custodian Account Inventory Overage will not process if the ECN
has a history record at more than one Center (Received #ECN 1266664 #
SEQUENCE-KEY 1266664001 after first <enter> and ERROR 004 -
REQUESTED RECORD DOES NOT EXIST after second <enter>.

Description of Change
Code was changed to look at all centers' history records instead of the user
center's history records to get the correct sequence number for Transaction I15.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
* Perform Transaction I15 on an ECN that is an overage and has been deleted
  by more than 1 center.
  Expected Results: A message will be displayed indicating that the ECN has
  been added.

MODULE ID	MODULE NAME	TYPE
NEMSINV		
TRNI15P1	Add Transaction I15 (Receipt from Return of Record from Historical File)	Program

7.0 CCR 403 – Add Reports 832, 833, and 834 to PCM

Currently there is no way for a Custodian to request the NEW LASER 1602 in the PCM. These REPORTS are necessary now and will need to be in place when the NASA FORM 1602 (MILTIPART) is depleted.

Description of Change

Code was changed to allow the 832, 833, and 834 reports to be scheduled and run from the Property Custodian Module (PCM).

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Schedule and run the 832 report in PCM
  Expected Results: A 1602 will be printed for each ECN entered.
- Schedule and run the 833 report in PCM
  Expected Results: A 1602 will be printed for each ECN entered.
- Schedule and run the 834 report in PCM
  Expected Results: A 1602 will be printed for each ECN entered.

MODULE ID	MODULE NAME	TYPE
NEMSPCM		
PRM832N1	This program generates JCL for NEMS-1 Reports	Subprogram
PRM832P1	This program produces a NEMS-1 for specified ECNs	Program
PRM833P1	NEMS-1 selection menu (Laser Printer)	Program
PRM834P1	NEMS-1 selection menu (Laser Printer)	Program

8.0 CCR 404 –Distribution Information for the 833, and 834 reports
Currently there is no way of telling where to mail the LASER VERSION of the
1602 form for REPORTS 833 and 834 going to the MAIN XEROX PRINTERS.

Description of Change
Code was changed to allow a banner page to be printed for the 832, 833, and
834 reports

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
- Schedule and run the 832 report in NEMS with the banner page set to 'Y'.
  Expected Results: A 1602 will be printed for each ECN entered with a banner
  page between custodians.
- Schedule and run the 833 report in NEMS.
  Expected Results: A 1602 will be printed for each ECN entered with a banner
  page between custodians.
- Schedule and run the 834 report in NEMS
  Expected Results: A 1602 will be printed for each ECN entered with a banner
  page between custodians.

MODULE ID	MODULE NAME	TYPE
MSD005P2	Produce a NEMS-1 for specified ECNs	Program
PCLBANER	PCL Banner (Printer Control Language)	Subprogram
PRM833P1	NEMS-1 selection menu (Laser Printer)	Program
RPT832P1	Produce a NEMS-1 for specified ECNs	Program
RPT833P1	Produce a NEMS-1 for specified ECN	Program
RPT834P1	Produce a NEMS-1 for a custodian	Program

9.0 CCR 405 –Add additional information to automatic email message

Web PCM custodians and users attempt to approve actions after they have expired.

Description of Change

Code was changed to include who the action is being sent from (old user or old custodian) and when the action must be completed in the email message.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Transfer an ECN from 1 (sending) user to another (receiving) user that has a different Custodian Account using the web front-end.
  Expected Results: An email will be generated to the sending user's custodian that will include the user's name, user's ID, and the date the action must be completed.
- The sending user's custodian will Approve the transfer after selecting the receiving user's custodian to transfer the ECN to for approval.
  Expected Results: An email will be generated to the receiving custodian that will include the sending custodian's name, custodian's ID, and the date the action must be completed.

- The receiving custodian will Approve the transfer of the ECN.
  Expected Results: An email will be generated to the receiving user that will include the receiving custodian's name, custodian's ID, and the date the action must be completed.

MODULE ID	MODULE NAME	TYPE
NEWLOCL1		LDA
NEWXFRN1	Change to new user (Web User Number Change)	Subprogram
TRNW26N1	Change Transaction 26 (Web Custodian Account Change)	Subprogram

10.0 CCR 407 –Change order of Loan In/Out & Lease In/Out
The order for the Total Loan Out/Total Loan In and Total Lease Out/Total Lease In should be reversed.

Description of Change
Code was changed to reverse the order to Total Loan In/Total Loan Out and Total Lease In/Total Lease Out.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
- Schedule and run the 440 report in NEMS.
  Expected Results: The Total Loan In, Total Loan Out, Total Lease In, and Total Lease Out should be in this order.

MODULE ID	MODULE NAME	TYPE
RPT440P1	1324 – Extract to NASA Headquarters	Program

11.0 <u>CCR 408 – PCM On Request Reports limited to 13 entries</u>
The On Request Reports selection in PCM is limited to 13 reports. When more than 13 reports are available in PCM the 14th and subsequent reports are not available to be selected.

Description of Change
Code was changed to allow more than 13 reports to be displayed.

Functional Impact
There is no functional impact as a result of this CCR.

Validation Procedures
- Must have more than 13 reports in PCM. Scroll down (PF8) to display the additional reports.
  Expected Results: The 2nd screen of reports will be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NEMSPCM		
RPTSELM1		Map
RPTSELP1	On-Request Report Selection Menu Program	Program

12.0 <u>CCR 411 – Erroneous processing of T15s</u>

A T71 should be ignored on reports 420, 422, 430, 432, and 440 if it's immediately followed by a T15. T71s are being ignored if a T15 has been processed against another delete transaction (e.g. T72) for that ECN.

Description of Change

Code was changed to only ignore a transaction 71 if a transaction 15 has been processed afterwards.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Must have the following ECNs:
  - (1)Must have an ECN that has been deleted (transaction 72), added back (transaction 15), and deleted again (transaction 71) on the same day (ex. 6-1-2004).
  - (2) Must have an ECN that has been deleted (transaction 72) on the same day (ex. 6-1-2004) as the ECN 1 above, added back (transaction 15) on the next day (ex. 6-2-2004), and deleted again (transaction 71) on the next day (06-03-2004).
  - (3) Must have an ECN that has been deleted (transaction 71) and added back (transaction 15) on the same day (06-01-2004) as ECN 1.
  - Schedule and run the 420, 422, 430, 432, and 440 reports. Use report begin and end dates the same as the dates for the 1st ECN above (ex. 6-1-2004).

  Expected Results: Reports 420, 422, 430, 432, and 440 will run successfully. All 3 transactions from (1) ECN will be included on the 5 reports. Transaction 72 from (2) ECN will be included. No transactions from (3) ECN will be included.

MODULE ID	MODULE NAME	TYPE
RPT420P1	1324 – Controlled Equipment Report – NEMS	Program
RPT422P2	1324 – Controlled Equipment Report Detail – NEMS	Program
RPT430P1	1324 – Controlled Equipment Report – Finance	Program
RPT432P2	1324 – Controlled Equipment Report Detail – Finance	Program
RPT440P1	1324 – Extract to NASA Headquarters	Program

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 6.4

Introduction

Release information:

    System Name: NEMS
    Release Number: 6.4
    Release Date: August 6, 2004
    Effective Date: Immediately

    In case of installation problems, contact the NASA Automated Data Processing (ADP)
    Consolidation Center (NACC) Technical Services Center (Use following Key Words:
    SESAAS & NEMS)

      Telephone: (256) 544-6673
      Email: neal.cantrell@msfc.nasa.gov
      FAX: (256) 544-1836

    The following datasets are located on the transient storage DASD volumes under the
    following data sets names:

    MSMOV.NEMS.PROD.R640.R0804.SRC

    Where "xx" is replaced by the appropriate NASA Center designation.

    AR – ARC
    DF – DFRC
    GS – GSFC
    HQ – HQ
    J5 – JSC
    KS – KSC
    LA – LaRC
    LE – GRC (Glenn)
    MS – MSFC
    SS – SSC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in section 9.0 to assist in tracking the installation of this release.

1.0 Back Up Existing Data
2.0 Copy Source
3.0 Pre-Predict Data Conversion
4.0 Install Predict
5.0 Catalog Source Code
6.0 Post-Predict Data Conversion
7.0 Perform Release-Specific Procedures
8.0 Local JCL Mods
9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NEMS files as a precautionary measure prior to installation.

2.0 Copy Source

This will be performed by SESAAS for the core modules. Any changes for site unique versions of these modules will be performed by the centers.

2.1 Copy Source Code

A. Source code is installed in three separate libraries. Source code for programs modified in this release version were unloaded in the NATUNLD format; these programs all have specific destination libraries as shown below. All the NEMS programs have a destination of NEMS; NEMSINV programs have a destination of NEMSINV and NEMSPCM programs have a destination of NEMSPCM.

    1. Load the NEMS source library from the dataset
        MSMOV.NEMS.PROD.R640.R0804.SRC

        The source programs were unloaded using the Natural utility NATUNLD. The NEMS programs:

1.	MSD005P2	Produce NEMS-1 for specified ECNs	Program
2.	NEMS	NEMS Banner Screen	Program
3.	NEUCEQPD	NEMS Capital Equipment – For TX 67	Program
4.	NEUCEQPE	NEMS Capital Equipment – For TX 06	Program
5.	NEUCEQPF	NEMS Capital Equipment – For TX 86	Program
6.	NEUCEQPG	NEMS Capital Equipment – For TX 80, 81, 90	Program
7.	NEUCEQPH	NEMS Capital Equipment – For TX 66	Program

8.	NEUCEQPI	NEMS Capital Equipment – For TX 05	Program
9.	NEUCEQPJ	NEMS Capital Equipment – For TX 13	Program
10.	NEWLOCL1		LDA
11.	NEWXFRN1	Change to a New User (Web User Number Change)	Subprogram
12.	PCLBANER	PCL Banner (Printer Control Language)	Subprogram
13.	PRM833P1	NEMS-1 selection menu (Laser Printer)	Program
14.	RPT420P1	1324 – Controlled Equipment Report – NEMS	Program
15.	RPT422P2	1324 – Controlled Equipment Report Detail – NEMS	Program
16.	RPT430P1	1324 – Controlled Equipment Report – Finance	Program
17.	RPT432P2	1324 – Controlled Equipment Report Detail – Finance	Program
18.	RPT440P1	1324 – Extract to NASA Headquarters	Program
19.	RPT771P1	Custodian Account Records not inventoried Report	Program
20.	RPT832P1	Produce a NEMS-1 for specified ECNs	Program
21.	RPT833P1	Produce a NEMS-1 for specified ECN	Program
22.	RPT834P1	Produce a NEMS-1 for a custodian	Program
23.	TRN060P1	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program
24.	TRNW26N1	Change Transaction 26 (Web Custodian Account Change)	Subprogram

will be loaded to the application library NEMS, replacing any existing programs of the same name.

2. Load the NEMSINV source library from the dataset:
    MSMOV.NEMS.PROD.R640.R0804.SRC

The source programs were unloaded using the Natural utility NATUNLD. The NEMSINV programs:

1.	NEMSINV	NEMS Inventory Banner Screen	Program
2.	TRNI06P1	Add Transaction I06 (Receipt by Transfer-From Contractor	Program
3.	TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program
4.	TRNI15P1	Add Transaction I15 (Receipt from Return of Record from Historical File)	Program

will be loaded to the application library NEMSINV, replacing any existing programs of the same name.

3. Load NEMSPCM source library from the dataset:
MSMOV.NEMS.PROD.R640.R0804.SRC

The source programs were unloaded using the Natural utility NATUNLD. The NEMSPCM Programs:

1. PCMMAP   Map
2. PRM832N1   This program generates JCL for NEMS-1 Reports   Subprogram
3. PRM832P1   This program produces a NEMS-1 for specified   Program
                            ECNs
4. PRM833P1   NEMS-1 selection menu (Laser Printer)   Program
5. PRM834P1   NEMS-1 selection menu (Laser Printer)   Program
6. RPTSELM1   Map
7. RPTSELP1   On-Request Report Selection Menu Program   Program

will be loaded to the application library NEMSPCM, replacing any existing programs of the same name.

The source module counts included in this release are listed below:

Natural Source Modules by Type	Count
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	1
MAPS	2
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	4
PROGRAMS	28
COPYCODE	0
TEXT	0
PROCESSOR	0
MISCELLANEOUS OBJECTS	0
Total:	35

2.2 List of Source Code Modifications

The following are the modules added, modified, and deleted.

Added Modules:

NEMS

1. PCLBANNER   Subprogram

INVENTORY
 None

PCM
2. PRM832N1   Subprogram
3. PRM832P1   Program
4. PRM833P1   Program
5. PRM834P1   Program

Modified Modules:

NEMS
6. MSD005P2   Program
7. NEMS   Program
8. NEUCEQPD   Program
9. NEUCEQPE   Program
10. NEUCEQPF   Program
11. NEUCEQPG   Program
12. NEUCEQPH   Program
13. NEUCEQPI   Program
14. NEUCEQPJ   Program
15. NEWLOCL1   LDA
16. NEWLOCN1   Subprogram
17. PRM833P1   Program
18. RPT420P1   Program
19. RPT422P2   Program
20. RPT430P1   Program
21. RPT432P2   Program
22. RPT440P1   Program
23. RPT771P1   Program
24. RPT832P1   Program
25. RPT833P1   Program
26. RPT834P1   Program
27. TRN060P1   Program
28. TRNW26N1   Subprogram

Inventory
29. NEMSINV   Program
30. TRNI06P1   Program
31. TRNI13P1   Program
32. TRNI15P1   Program

PCM
33. PCMMAP   Map

Deleted Modules:

NEMS
None

Inventory
None

PCM
None

3.0 Pre-Predict Data Conversion

Not Applicable for this release.

4.0 Install Predict

4.1 Data Dictionary Changes

Not Applicable for this release.

4.1.2 Storage Considerations

Not applicable with this release.

4.1.3 Physical File Changes

Not applicable for this release.

5.0 Catalog Source Code

To be performed by the SESAAS DBA.

Run a batch job to catalog (CATALL) all modules in the NEMS library using the NASA Batch Standard Parameters replacing the existing PS and LS with the following values: PS=23 and LS=80. It is not necessary to catalog the Global Data Area (GDA).

You should receive 35 NATURAL 0303 errors for modules that begin with RPT* that concern page overflow and 27 programs will produce NATURAL 0002 errors. There should be a total of 62 NATURAL errors.

A list of errors found above and dispositions of these results follows:
- To compile the NATURAL 0303 errors correctly, run another CATALL for the RPT* modules in the NEMS library using the NASA Batch Standard Parameters. You should receive 12 NATURAL 0002 errors. Ignore the 0002 errors because these objects are dynamic. You should also CATALL the JRNRPTP1 module using the NASA Batch Standard Parameters.

- The 27 NATURAL 0002 errors from the first CATALL are to be IGNORED because these objects are dynamic.

Run a batch job to catalog (CATALL) all modules in the NEMSINV library using the NASA Batch Standard Parameters. It is not necessary to catalog the Global Data Area (GDA). There should be no errors received.

Run an online catalog (CATALL) on module TRNI34P1 and TRNILOP3 to prevent problems with access to the second screen.

Run a batch job to catalog (CATALL) all modules in the NEMSPCM library using the NASA Batch Standard Parameters. It is not necessary to catalog the Global Data Area (GDA). There should be one NATURAL 0043 error received. See Section 9.0 Installation Checklist for instructions on how to correct these errors.

After all objects are compiled, the NEMS application will run under the NASA On-line Standard Parameters.

6.0 Post-Predict Data Conversion

Not Applicable for this release.

7.0 Perform Release-Specific Procedures

7.1 Add Reports 832, 833, and 834 to table S06

This step will be performed by SESAAS

8.0 Local JCL Mods

Bold lines are new lines

9.0 Installation Checklist

1.0   Back Up Existing Data
2.0   Copy Source
   2.1   Copy Source Code
   2.2   List of Source Code Modifications
3.0   Pre-Predict Data Conversion
4.0   Install Predict
   4.1   Data Dictionary Change
      4.1.1   Inventory of Objects
      4.1.2   Storage Considerations
      4.1.3   Physical File Changes
5.0   Catalog Source Code
6.0   Post-Predict Data Conversion
7.0   Perform Release-Specific Procedures
8.0   Local JCL Mods